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AVIATION WEEK  
COMPUTER DESIGN  
ELECTROMECHANICAL DESIGN  
CONTROL ENGINEERING  
INST. & CONTROL SYSTEMS  
ELECTRONICS BUYERS' GUIDE

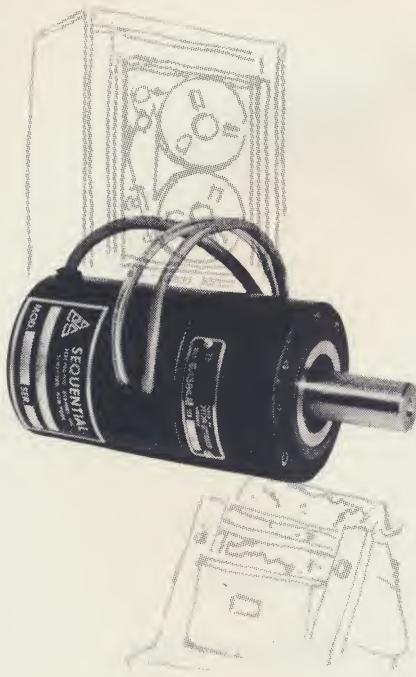
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SEQUENTIAL  
ELECTRONIC  
SYSTEMS  
INC.

66 Saw Mill River Road, Elmsford, New York 10523

(914) LYric 2-8810 TWX 914 592 8368



## ENCODED D.C. TORQUE MOTOR

Sequential's Series 200 Encoded D. C. Torque Motors are used in direct and incremental positioning systems in a wide variety of tape recorders, and facsimile scanners and recorders.

*A single package optically encoded d. c. torquer • Integral capstan assembly • 100 micro-inch max. capstan runout • Easy access to brushes in installed unit • Ultra high torque-to-inertia ratio • Fast torquer response time • Low ripple torque • Optical encoders have extremely high density and accuracy • Encoder configurations to meet special applications • Self-contained readout electronics • Control systems for both speed/phase and incremental positioning applications are available • Military and commercial models.*

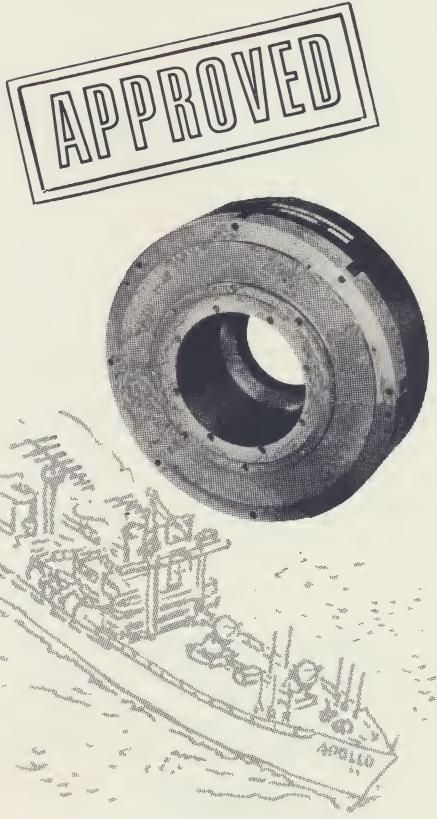
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Write for Bulletin ETM-200



## 19 BIT NATURAL BINARY OPTICAL ENCODER

Sequential has delivered 19 bit natural binary optical encoders for use on the Marine Star Trackers aboard the Apollo Tracking Ships.

- 19 Bit resolution in 8 inch diameter housing • All electronics in encoder housing • Integrated circuit assemblies • Printed circuit interconnections • Modular construction • Plug-in lamp assemblies, field replaceable • Fiber optic disc illumination • Unique locked-beam technique • No trim adjustment • Outputs unaffected by power supply variations • One hour in-field MTTR • Projected MTBF 15,000 hours

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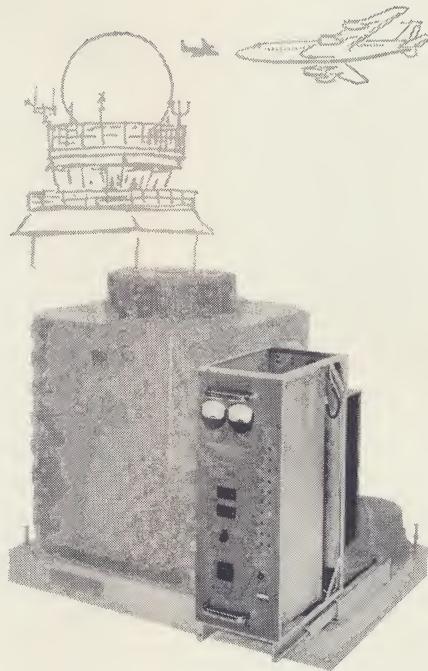


## OPTI-SCAN

INCREMENTAL  
OPTICAL ENCODER

OPTI-SCAN encoders are presently operational on inertial platforms used in down range missile tracking programs. The encoder bearing, by supporting the gimbal shaft, functions as the gimbal pivot.

**Resolution to  $2^{16}$  in  $3\frac{1}{2}$  inch diameter housing • Sine-cosine outputs available for multi-speed resolver servo applications • Signal-to-noise ratio greater than 26db • Operating temperature range from  $-55^{\circ}\text{C}$  to  $+71^{\circ}\text{C}$  • Readout electronics and level detectors wholly contained within the encoder housing • Integrated circuit assemblies • Printed circuit interconnections • Modular construction • Plug-in lamp assembly, field replaceable • Fiber optic disc illumination • Unique locked-beam optical readout • No trim adjustments • Outputs unaffected by power supply variations and bulb aging • In-field repair capability • 3 year lamp life • Projected electronics MTBF —6 years • Extreme military environment capability.**



## MAGNETIC DRUM SYNCHRONIZATION SYSTEM

Sequential has delivered Magnetic Drum Synchronization Systems for use with the Alpha Numerical Display System currently being installed by the FAA for air traffic control.

- Time displacement error less than 100 ns
- Unlimited number of drums can be electronically geared to perform as a single unit
- Non-volatile storage
- Absolute position control of all drums under all conditions i.e. even after power failure
- Increases storage capacity of alpha-numeric display systems or digital computers on a modular basis
- Integrated circuit electronic assemblies available for airborne applications
- MTBF greater than 15,000 hours
- Meets all applicable MIL-SPECS
- No trim adjustments

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### SEQUENTIAL ELECTRONIC SYSTEMS, INC.

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Write for Technical Data Sheet OS.

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### SEQUENTIAL ELECTRONIC SYSTEMS, INC.

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Elmsford, New York



Write for Bulletin MDS



## RECONNAISSANCE FILM DRIVE SYSTEMS

Sequential film drive systems are used in reconnaissance and surveillance ground and airborne equipment for gathering, processing, transmitting and recording graphic information.

- Direct drive integral capstan •
- Absolute speed synchronization • 1
- Arc-second positional accuracy, zero cumulative error • 3kc closed-loop control bandwidth • 140db closed-loop flutter reduction • Integral electro-optical transducer •
- 100 micro-inch max. capstan run-out • True zero-speed to saturation speed capability • Integrated circuit assemblies • Printed circuit interconnections • Modular construction
- Airborne electronic package volume:  $7\frac{3}{4}$  L x  $3\frac{3}{8}$  W x  $4\frac{1}{16}$  H • Total weight of airborne systems is under 15 lbs. • Meets all applicable MIL-SPECS

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Write for Bulletin FDS

MILITARY AND INDUSTRIAL  
OPTICAL SHAFT ANGLE  
ENCODERS

DIGITAL-TO-ANALOG  
AND  
ANALOG-TO-DIGITAL  
CONVERTERS

PRECISION AIR BEARING  
CENTRIFUGES  
AND  
ROTARY TABLES

DIGITAL-TO-SYNCHRO OR RESOLVER  
AND  
SYNCHRO OR RESOLVER-TO-DIGITAL  
CONVERTERS

# INDUSTRIAL CONTROL ENCODED TORQUE MOTORS AND DATA LOGGING SYSTEMS

# SPEED AND POSITION CONTROL SYSTEMS

# SPECIAL PURPOSE DIGITAL COMPUTERS